

Extra Notes 4-3 and 4-4
Integrated Math 2

Name _____

Date _____

1. Use the Fundamental Counting Principle (FCP) to determine the number of possible outcomes. You want to order a complete dinner from a restaurant by selected one appetizer, one main course, and one dessert. You can choose from six appetizers, eight main courses, and five desserts.

2. Two six-sided dice are rolled, each numbered 1-6. Create a tree diagram to represent the sample space.

3. Use the tree diagram from problem 2 to determine the following probabilities.
a. $P(\text{sum of } 6)$
b. $P(\text{odd sum})$

4. Use the tree diagram from problem 2 to determine the following probabilities.

a. $P(\text{sum of 4 or 8})$

b. $P(\text{sum} > 7)$

c. $P(\text{sum is even and} < 5)$

d. $P(\text{sum is odd or} > 8)$